



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

AUG 12 2011

REPLY TO THE ATTENTION OF:

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

G. L. Bevilacqua, General Manager  
Caterpillar, Inc. -Mapleton Foundry  
8826 West Route 24  
Mapleton, Illinois 61547

Re: Finding of Violation  
Caterpillar, Inc. - Mapleton Foundry  
Mapleton, Illinois

Dear Mr. Bevilacqua:

The U.S. Environmental Protection Agency is issuing the enclosed Finding of Violation (FOV) to Caterpillar, Inc. (you). We find that you are violating Section 113(a) of the Clean Air Act (CAA), 42 U.S.C. § 7413(a), at your Mapleton, Illinois facility.

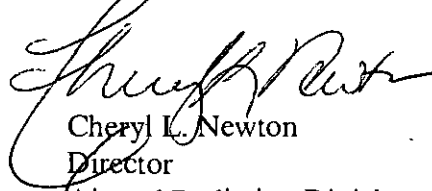
We have several enforcement options under Section 113(a)(3) of the CAA, 42 U.S.C. § 7413(a)(3). These options include issuing an administrative compliance order, issuing an administrative penalty order and bringing a judicial civil or criminal action.

We are offering you an opportunity to confer with us about the violations alleged in the FOV. The conference will give you the opportunity to present information on the specific findings of violation, the efforts you have taken to comply, and the steps you will take to prevent future violations.

Please plan for your facility's technical and management personnel to attend the conference to discuss compliance measures and commitments. You may have an attorney represent you at this conference.

The EPA contact in this matter is Joseph Ulfig. You may call him at (312) 353-8205 to request a conference. You should make the request within 10 calendar days following receipt of this letter. We should hold any conference within 30 calendar days following receipt of this letter.

Sincerely,

A handwritten signature in cursive script, appearing to read "Cheryl L. Newton".

Cheryl L. Newton  
Director  
Air and Radiation Division

Enclosure:

cc: Ray Pilapil, Manager  
Compliance and Systems Management Section  
Illinois Environmental Protection Agency

5. The NESHAP, at 40 C.F.R. § 63.7710(b), requires the owner and operator of a foundry to prepare and operate at all times according to a written operation and maintenance plan for each capture and collection system and control device for an emissions source subject to a particulate matter, metal HAP, TEA, or volatile organic HAP emissions limit.

6. The NESHAP, at 40 C.F.R. § 63.7736(a)(1)(ii) and (b)(2), requires the owner and operator of a foundry to inspect, operate, and maintain each capture system and control device subject to an operating limit according to the procedures in the operation and maintenance plan.

7. The NESHAP, at 40 C.F.R. § 63.7741(f)(3), requires the owner and operator of a foundry to operate each continuous parameter monitoring system to determine and record the hourly average of all recorded readings and the three hour average of all recorded readings.

8. Caterpillar owns and operates a grey iron foundry located at 8826 West Route 24 in Mapleton, Illinois.

9. Caterpillar's facility is subject to the NESHAP for Iron and Steel Foundries because it is a foundry that is a major source of hazardous air pollutants.

10. Section 502(a) of the CAA, 42 U.S.C. § 7661a(a), and 40 C.F.R. § 70.7(b) provide that, after the effective date of any permit program approved or promulgated under Title V of the CAA, no source subject to Title V may operate except in compliance with a Title V permit.

11. U.S. EPA granted interim approval to the Illinois Title V operating permit program on March 7, 1995, and the program became effective on that date. U.S. EPA granted final approval of the Illinois Title V program effective November 30, 2001.

12. Caterpillar was issued a Title V Operating Permit, Number 96020004, by the Illinois Environmental Protection Agency on November 25, 2003.

13. Section 7.5.9 of Caterpillar's Title V Operating Permit requires that Caterpillar maintain records of several parameters for affected emission units to demonstrate compliance with the conditions of the Title V Operating Permit.

### **Violations**

1. In Caterpillar's Annual Compliance Certifications and Deviation Summary Reports for 2008, 2009, and 2010, Caterpillar has reported events where the foundry failed to maintain its acid scrubbers three hour average scrubbing liquid flow rate at or above the minimum level established during performance testing. Also in Caterpillar's Annual Compliance Certifications and Deviation Reports for 2007, 2008, 2009 and 2010, Caterpillar has reported events where the foundry failed to maintain the three hour average pH of the scrubber blowdown at or below 4.5. These are violations of 40 C.F.R. § 63.7690(b)(5)(i and ii).

2. In Caterpillar's Annual Compliance Certifications and Deviation Summary Reports for 2007, 2009, and 2010, Caterpillar has reported events where the foundry did not operate according to a written plan for the selection and inspection of iron and steel scrap. These are violations of 40 C.F.R. § 63.7700(c).

3. In Caterpillar's Annual Compliance Certification and Deviation Summary Report for 2005, Caterpillar has reported events where the foundry did not operate at all times according

to the facility's operation and maintenance plan for the facility's baghouse equipment. This is a violation of 40 C.F.R. § 63.7710(b).

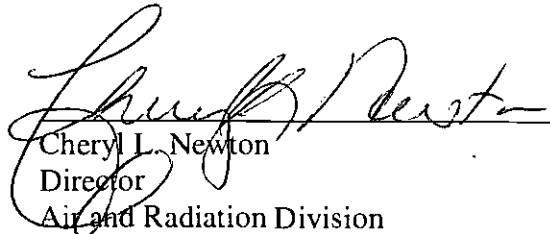
4. In Annual Compliance Certifications and Deviation Summary Reports for 2007, 2008, and 2011, Caterpillar has reported events where the foundry did not inspect, operate, and maintain each capture system and control device subject to an operating limit according to the procedures in the operation and maintenance plan. These are violations of 40 C.F.R. § 63.7736(a)(1)(ii) and (b)(2).

5. In Annual Compliance Certifications and Deviation Summary Reports since 2006, Caterpillar has reported events where the foundry's continuous parameter monitoring system failed to determine and record the hourly average of all recorded readings and the three hour average of all recorded readings. These are violations of 40 C.F.R. § 63.7741(f)(3).

6. In Annual Compliance Certifications and Deviation Summary Reports since 2006, Caterpillar has reported that it failed to maintain records of several parameters for affected emission units. These are violations of Section 7.5.9 of Caterpillar's Title V Operating Permit.

7. Caterpillar's operation in violation of its Title V permit constitutes a violation of Section 502 of the CAA and of 40 C.F.R. § 70.7(b).

8/12/11  
Date

  
Cheryl L. Newton  
Director  
Air and Radiation Division

## CERTIFICATE OF MAILING

I, Betty Williams, certify that I sent a Finding of Violation, No. EPA-5-11-IL-17, by

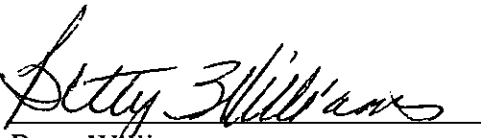
Certified Mail, Return Receipt Requested, to:

G.L. Belvilacqua, General Manager  
Caterpillar, Inc. - Mapleton Foundry  
8826 West Route 24  
Mapleton, Illinois 61547

I also certify that I sent a copy of the Finding of Violation by first-class mail to:

Ray Pilapil, Manager  
Bureau of Air  
Compliance and Enforcement Section  
Illinois Environmental Protection Agency  
1021 North Grand Avenue East  
Springfield, Illinois 62702

On the 15<sup>th</sup> day of August 2011.

  
Betty Williams  
Administrative Program Assistant  
AECAB, PAS

CERTIFIED MAIL RECEIPT NUMBER:

7009 1680 0000 7672 KSB